Index of Claims

| Annli | cation/Control | No   |
|-------|----------------|------|
| whhi  | cation/control | 110. |

10/799,659

Date

Examiner

Audrey Y. Chang

Applicant(s)/Patent under Reexamination

YASUDA ET AL

Art Unit

2872

| <b>√</b> | Rejected |
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| 11       | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

Claim

| N | Non-Elected  |
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| ı | Interference |

| Α | Appeal   |
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| Cla      | Ε.   |              | -        |              | Date         |          |  |  |          |          |
| Final    | Original   | 7<br>5<br>6  |          |              |              |          |  |  |          |          |
|          | 1  | <b>V</b>     |          |              |              |          |  |  |          |          |
|          | 1<br>2<br>2<br>4<br>5<br>6<br>7                  | -            |          |              |              |          |  |  |          |          |
|          | 4  | V            | _        | _            | _            |          | _  |  |          |          |
|          | 5  | 500          |          |              |              |          |  |  |          |          |
|          | 7  | 7            |          |              | _            |          |  |  |          |          |
|          | 8  | V            |          |              |              | _        | _  |  | _        | $\sqcap$ |
|          | 9  | V            |          |              |              |          |  |  |          |          |
|          | 1/2  | $\vdash$     |          | _            | _            | _        |  |  |          | dash     |
|          | 12   | V            |          |              |              |          |  |  |          |          |
|          | 13   | 7            |          |              |              |          |  |  |          | Ц        |
| $\vdash$ | 8<br>9<br>10<br>12<br>13<br>14<br>15<br>16<br>17 | ¥            |          | <u> </u>     |              |          |  |  | -        |          |
|          | 16   | Î            |          |              |              |          |  |  |          |          |
|          | 17   | 1            |          |              |              |          |  | L  |          | $\vdash$ |
|          | 19   |              |          |              | -            | -        |  |  |          | Н        |
|          | 20   | Ħ,           |          |              |              |          |  |  |          |          |
| <u> </u> | 21<br>22<br>23                                   | 7            | _        |              | _            |          |  |  | _        | $\vdash$ |
|          | 23   | V            |          |              |              |          |  |  |          |          |
|          | 24<br>25   | 0            |          | _            | _            |          |  | _  |          |          |
|          | 26   | _            |          |              | $\vdash$     |          | _  | -  |          |          |
|          | 27<br>28   |              |          |              |              |          |  |  |          |          |
|          | 28   |              |          | _            | _            |          |  |  |          | _        |
|          | 29<br>30   |              | _        |              |              |          |  |  |          | _        |
|          | 31   |              |          |              |              |          |  |  |          |          |
|          | 32<br>33   |              |          | _            | -            | $\vdash$ | ļ  | H  | L        |          |
|          | 34   |              |          | E            |              |          |  |  |          |          |
|          | 35   |              |          |              |              | _        |  |  |          |          |
| -        | 36<br>37   |              | $\vdash$ | -            | <del> </del> | $\vdash$ | -  | H  |          | Н        |
|          | 38<br>39   |              |          |              |              |          |  |  |          |          |
| <u> </u> |  | _            | <u> </u> | <u> </u>     | L            | L        | ļ  | <u>L.</u>  |          | Н        |
|          | 40   | $\vdash$     | <u> </u> | $\vdash$     | $\vdash$     | -        | -  | <del>                                     </del> |          | Н        |
|          | 42   |              |          |              |              |          |  |  |          |          |
| ļ        | 43   | -            |          | <u> </u>     |              | $\vdash$ | $\vdash$   | <u> </u>   | ļ        | Н        |
| -        | 45   | $\vdash$     | $\vdash$ | H            | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$   |          | $\vdash$ |
|          | 46   |              |          |              |              |          |  |  |          |          |
|          | 47   | <del> </del> | $\vdash$ | <del> </del> | <del> </del> |          | <del> </del>                                     | -  | $\vdash$ | Н        |
| -        | 49   |              | -        | -            | -            |          | <del>                                     </del> | $\vdash$   | -        | Н        |
|          | 50   |              | Г        | Γ            |              |          |  |  |          |          |

| 52       53         54       55         56       57         58       59         60       61         62       63         64       65         66       67         68       69         70       71         72       73         74       75         76       77         78       79         80       81         82       83         84       85         86       87         88       89         90       91         92       93         94       94            | Final     | Original |  |  |  |  |  |          |  |  |  |
|--|-----------|----------|--|--|--|--|--|----------|--|--|--|
| 54         55         56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93         94 |           | 51       |  | $\vdash$   |  | Н  | _  |          |  |  | -  |
| 54         55         56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93         94 |           | 52       |  | -  |  | -  |  |          |  |  |  |
| 54         55         56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93         94 |           | 53       | _  | _  |  | -  |  |          |  |  |  |
| 55         56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93         94            | _         | 54       |  | _  |  | _  |  |          |  |  | -  |
| 56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93         94                       |           | 55       |  |  |  |  |  | _        | $\overline{}$                                    | _  |  |
| 57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93         94                                  |           | 56       |  |  |  |  | _  |          |  |  |  |
| 58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93         94   |           |          | -  |  |  |  |  |          |  | _  |  |
| 60<br>61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   |           | 58       |  |  |  | -  |  |          |  |  |  |
| 60<br>61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   |           | 59       |  |  |  |  |  |          |  |  |  |
| 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   |           | 60       |  | _  | $\Box$   |  | -  |          |  |  |  |
| 63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   |           | 61       |  |  | $\vdash$   |  |  | $\vdash$ |  |  |  |
| 63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   |           | 62       | ٠,   |  |  |  |  | -        |  |  |  |
| 66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   |           | 63       |  | _  |  | П  |  | _        |  |  |  |
| 66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   | <b></b> - | 64       |  |  | <del>                                     </del> |  |  |          |  |  |  |
| 66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   | l         | 65       |  |  |  | Г  |  |          |  |  |  |
| 68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   |           | 66       |  |  | <u> </u>   |  |  |          |  |  | Г  |
| 68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   |           | 67       |  |  | <u> </u>   |  |  |          |  |  |  |
| 69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   |           | 68       |  |  |  |  |  | $\Box$   |  |  |  |
| 74   |           | 69       |  |  |  |  |  |          |  |  |  |
| 74   |           | 70       |  |  |  |  |  |          |  |  |  |
| 74   |           | 71       |  |  |  |  |  |          |  |  |  |
| 74   |           | 72       |  |  |  |  |  |          |  |  |  |
| 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93   |           | 73       |  |  |  |  |  |          |  |  |  |
| 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93   |           | 74       |  |  |  |  | _  | L        | L  | _  |  |
| 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93   |           | 75       | _  | _  |  |  |  |          |  | L  |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   |           | 76       | L  | <u> </u>   |  |  |  |          |  |  | ᆫ  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   |           | 77       | L  |  |  |  | _  |          |  | _  |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   |           | 78       |  | L.   | _  | _  |  | _        | _  |  | <u> </u>   |
| 81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93   |           | 79       |  | ļ  |  | _  | _  |          | <u> </u>   | _  | <u> </u>   |
| 82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93   | <u> </u>  | 80       |  | <u> </u>   | ļ  |  |  |          | <u> </u>   | _  | <u> </u>   |
| 84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   | ļ         | 81       | -  | _  |  |  | _  | _        |  | <u> </u>   | _  |
| 84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   |           | 82       | _  | _  | _  | -  |  | _        | _  |  | <del> </del>                                     |
| 85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   | <u> </u>  | 83       |  | -  | -  | _  | ├—   | $\vdash$ | <u> </u>   | ├  | ⊢  |
| 86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   | <u> </u>  | 05       | -  | -  | -  | ├-   | $\vdash$   | -        | -  | $\vdash$   | -  |
| 87<br>88<br>89<br>90<br>91<br>92<br>93<br>94   | ├         | 00       | -  |  | $\vdash$   | $\vdash$   | ├-   | -        | -  | $\vdash$   |  |
| 88<br>89<br>90<br>91<br>92<br>93<br>94   | <u> </u>  | 87       | -  | -  | $\vdash$   | ├─   | $\vdash$   | $\vdash$ | $\vdash$   | -  | $\vdash$   |
| 90<br>91<br>92<br>93<br>94   | $\vdash$  | 88       | ├  | $\vdash$   | -  | -  | $\vdash$   | -        | -  | ├-   | $\vdash$   |
| 90<br>91<br>92<br>93<br>94   | <u> </u>  | 80       | $\vdash$   | -  | <del>                                     </del> | $\vdash$   | -  | $\vdash$ | -  |  |  |
| 91<br>92<br>93<br>94   |           | 90       | $\vdash$   | <del>                                     </del> | <del>                                     </del> | $\vdash$   | -  | $\vdash$ | $\vdash$   |  |  |
| 92<br>93<br>94   |           | 91       | $\vdash$   | <del>                                     </del> | $\vdash$   | Ι  | $\vdash$   | H        | $\vdash$   | $\vdash$   | -  |
| 93 94  |           | 92       | Н  | ┢  | <del>                                     </del> | Н  | <del>                                     </del> | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$   |
| 94   |           |          | <del>                                     </del> | $\vdash$   | _  | t  | <del>                                     </del> | t        |  | $\vdash$   | <del>                                     </del> |
|  |           | 94       | $\vdash$   | $\vdash$   |  | <del>                                     </del> | <del>                                     </del> | 一        |  | $\vdash$   | Т  |
|  |           | 95       | $\vdash$   | <b> </b>   | t  | 1  | <del>                                     </del> | Н        | <del>                                     </del> | $\vdash$   | ┢  |
| 96   |           | 96       | <del>                                     </del> | T  | Г  | <del>                                     </del> | T  | T        | T  | 一  | T  |
| 97   | $\vdash$  |          | $\vdash$   | $\vdash$   | T  | <u> </u>   |  | ┢        | $\vdash$   | <del>                                     </del> | Г  |
| 98   |           |          | T  |  |  | T  | Г  | Т        | 1  | Т  |  |
| 99   |           | 99       | Г  | 1  | 1  | П  | Г  | Г        |  |  | 1  |
| 100  |           | 100      |  | L  |  |  |  | Г        |  |  |  |

| Cli      | aim   |            |                    |          | (            | Date     |          |          |  | $\neg$          |
|----------|---|------------|--------------------|----------|--------------|----------|----------|----------|--|-----------------|
|          |   |            |                    |          |              |          |          |          |  |                 |
| <u>a</u> | Original  |            |                    |          |              |          |          |          |  | 1               |
| Final    | rigi  |            |                    |          |              |          |          |          |  |                 |
| _        | 0   |            |                    |          |              |          |          |          |  | 1               |
|          | 101   |            |                    | -        | _            |          |          |          |  |                 |
|          | 102   | -          |                    |          |              |          |          |          | $\vdash$                               |                 |
|          | 101<br>102<br>103   |            |                    |          |              |          |          | -        | $\vdash$                               |                 |
|          | 103   | _          |                    | $\vdash$ |              |          |          | _        |  | ㅓ               |
|          | 104<br>105  | _          | _                  | _        |              |          | _        |          |  | $\dashv$        |
|          | 106   |            |                    | $\vdash$ | _            | -        | _        | -        | _                                      | $\dashv$        |
|          | 107   |            |                    | H        | _            | _        | _        | -        | $\vdash$                               | $\dashv$        |
|          | 107   |            | -                  |          | -            |          | _        |          | -                                      | $\vdash$        |
|          | 108<br>109<br>110   |            | $\vdash$           |          |              |          | _        | _        | -                                      | Н               |
|          | 109   | -          | _                  |          |              |          | _        |          |  | $\dashv$        |
|          | 110   |            |                    | _        | _            | _        |          | H        | _                                      | $\dashv$        |
| <b></b>  | 111   |            | <u> </u>           | <u> </u> | <del> </del> | -        | -        | $\vdash$ | <u> </u>                               | $\vdash \vdash$ |
|          | 112   |            | <u> </u>           | <u> </u> |              | <u> </u> | $\vdash$ | L        | <u> </u>                               | $\dashv$        |
| ļ        | 113   | _          |                    | <u> </u> | H            |          | <u> </u> | <u> </u> | _                                      | Н               |
|          | 114   | <u> </u>   | <u> </u>           | $\vdash$ | <u> </u>     |          |          | <u> </u> | $\vdash$                               | $\vdash \vdash$ |
|          | 112<br>113<br>114<br>115<br>116<br>117<br>118                             | _          | ļ                  | <u> </u> |              | L        | <u> </u> | _        | <u> </u>                               | $\vdash$        |
|          | 116   | <u> </u>   | L.                 | <u> </u> |              | <u> </u> | L        | <u> </u> | <u> </u>                               |                 |
|          | 117   |            |                    | <u> </u> | L.,          | L.       | L-       | <u> </u> | _                                      | Щ               |
|          | 118   |            | _                  | <u> </u> |              |          |          |          |  |                 |
|          | 119   |            |                    | <u> </u> | <u> </u>     |          |          |          |  |                 |
|          | 120   | <u> </u>   |                    | _        | _            |          |          |          |  |                 |
|          | 121   |            | <u> </u>           | _        |              |          |          | L        |  |                 |
|          | 122   | <u> </u>   | _                  | <u> </u> |              | <u> </u> |          | <u> </u> |  |                 |
|          | 123   |            | _                  | _        | <u> </u>     | _        | _        |          |  |                 |
|          | 124   |            |                    | L        |              | _        | _        | _        |  |                 |
| <u> </u> | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130 | _          | <u> </u>           | _        |              | _        |          | <u> </u> |  | _               |
|          | 126   | <u> </u>   |                    | _        |              | _        | _        |          | _                                      |                 |
|          | 127   | <u> </u>   |                    | _        | _            | _        | <u> </u> | _        | _                                      |                 |
|          | 128   | _          | L.                 | <u> </u> | _            | _        | _        |          | <u> </u>                               |                 |
|          | 129   |            |                    | <u> </u> |              | <u> </u> | _        |          |  |                 |
|          | 130   | <u>L</u> . | L_                 | _        |              |          |          |          |  |                 |
|          | 131<br>132  |            | _                  |          | _            |          |          | _        |  | Ш               |
|          | 132   |            |                    |          |              | <u> </u> | L.       |          |  | $\square$       |
|          | 133   |            | <u> </u>           | _        | <u> </u>     |          |          | L.       |  |                 |
|          | 134<br>135  | L.         | <u> </u>           | <u> </u> |              | <u> </u> | <u> </u> |          | <u> </u>                               | Щ               |
|          | 135   | _          | _                  |          | <u> </u>     | <u> </u> | <u> </u> | L_       | <u> </u>                               | Ш               |
|          | 136<br>137  |            |                    | L_       |              |          |          | L_       | <u> </u>                               | Ш               |
| ļ        | 137   | L_         |                    | $\vdash$ | _            | <u> </u> | <u> </u> | <u> </u> | <u> </u>                               | Ш               |
|          | 138   | <u> </u>   | <u> </u>           | _        | L            | <u> </u> | 匚        | <u> </u> | <u> </u>                               | Щ               |
| L        | 139   | <u> </u>   |                    |          |              | _        | <u> </u> | <u> </u> | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | Щ               |
| <u> </u> | 140   | <u> </u>   |                    | <u> </u> | <u> </u>     |          | <u> </u> | <u> </u> | _                                      | Щ               |
| <u></u>  | 141   | <u> </u>   |                    | _        | ļ            | _        | <u> </u> |          | <u> </u>                               | Ш               |
|          | 142   | <u> </u>   | <u> </u>           | <u> </u> | <u> </u>     | <u> </u> | <u> </u> |          | <u> </u>                               | Ш               |
| <u></u>  | 143   | <u> </u>   | _                  | _        | _            | <u> </u> |          |          | _                                      | Ш               |
|          | 144   | <u> </u>   | <u> </u>           | _        | <u> </u>     | <u> </u> | <u> </u> | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$    | Ш               |
|          | 145   | L          | $oxedsymbol{oxed}$ | _        | _            | _        | _        |          | _                                      | Ш               |
|          | 146   | L          | L                  | L        | $\Box$       |          |          | L        | L                                      |                 |
|          | 147   |            |                    | L        |              |          |          | L        |  |                 |
|          | 148   |            |                    |          |              |          |          |          |  |                 |
|          | 149   | L          |                    |          |              |          | 匚        |          |  |                 |
|          | 150   |            |                    |          |              |          |          |          |  |                 |
|          |   |            |                    |          |              |          |          |          |  |                 |